DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES Office of Structural Materials

Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 1.28

WELDING INSPECTION REPORT

Resident Engineer: Casey, William **Report No:** WIR-027672 Address: 333 Burma Road **Date Inspected:** 29-May-2012

City: Oakland, CA 94607

Project Name: SAS Superstructure **OSM Arrival Time:** 700 **OSM Departure Time:** 1730 **Prime Contractor:** American Bridge/Fluor Enterprises, a JV

Contractor: American Bridge/Fluor Enterprises, a JV **Location:** Job Site

CWI Name: CWI Present: Yes No As noted below. **Inspected CWI report:** Yes N/A **Rod Oven in Use:** Yes No No N/A N/A **Electrode to specification:** Yes No **Weld Procedures Followed:** Yes No N/A

Qualified Welders: Yes No N/A **Verified Joint Fit-up:** Yes No N/A N/A Yes N/A **Approved Drawings:** Yes No **Approved WPS:** No Yes No N/A **Delayed / Cancelled:**

Bridge No: 34-0006 **Component: Tower Component**

Summary of Items Observed:

Quality Assurance Inspector (QA) William Clifford was at the American Bridge/Fluor (ABF) job site at Yerba Buena Island in California between the times noted above in order to monitor Quality Control functions and the in process work being performed by ABF personnel. The following items were observed:

In Process Visual Inspection

Tower

This QA randomly observed ABF/JV qualified welder Jin Pei Wang #7299 performing Shielded Metal Arc Welding (SMAW) with 1/8" diameter E7018H4R electrode and implementing Caltrans approved Welding Procedure Specification's (WPS) ABF-WPS-D15-F1200A and ABF-WPS-D15-1160. Welding consisted of a thirty millimeter (30mm) fillet weld and a Partial Joint Penetration (PJP) to attach corner stiffener plate designated as #141-2 at 13m elevation.

During welding, ABF Quality Control (QC) Bernard Docena was noted monitoring the welding parameters. Welding parameters were recorded as (A=131).

This QA randomly observed ABF/JV qualified welder Xiao Jian Wan #9677 performing Shielded Metal Arc Welding (SMAW) with 1/8" diameter E7018H4R electrode and implementing Caltrans approved Welding Procedure Specification's (WPS) ABF-WPS-D15-F1200A and ABF-WPS-D15-1160. Welding consisted of a thirty millimeter (30mm) fillet weld and a Partial Joint Penetration (PJP) to attach corner stiffener plate designated as #142-2 at 13m elevation.

During welding, ABF Quality Control (QC) Bernard Docena was noted monitoring the welding parameters. Welding parameters were recorded as (A=129).

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Welding at previously mentioned locations were completed at approximately 12:50am.

This QA randomly observed ABF/JV qualified welder Jin Pei Wang #7299 performing Shielded Metal Arc Welding (SMAW) with 1/8" diameter E7018H4R electrode and implementing Caltrans approved Welding Procedure Specification's (WPS) ABF-WPS-D15-F1200A and ABF-WPS-D15-1160. Welding consisted of a thirty millimeter (30mm) fillet weld and a Partial Joint Penetration (PJP) to attach corner stiffener plate designated as #142-1 at 13m elevation.

During welding, ABF Quality Control (QC) Bernard Docena was noted monitoring the welding parameters. Welding parameters were recorded as (A=131).

This QA randomly observed ABF/JV qualified welder Xiao Jian Wan #9677 performing Shielded Metal Arc Welding (SMAW) with 1/8" diameter E7018H4R electrode and implementing Caltrans approved Welding Procedure Specification's (WPS) ABF-WPS-D15-F1200A and ABF-WPS-D15-1160. Welding consisted of a thirty millimeter (30mm) fillet weld and a Partial Joint Penetration (PJP) to attach corner stiffener plate designated as #141-1 at 13m elevation.

During welding, ABF Quality Control (QC) Bernard Docena was noted monitoring the welding parameters. Welding parameters were recorded as (A=130).

Approximately:

9:00 this QA observed QC Bernard Docena perform Magnetic Particle Testing (MT) of the PJP root pass to attach corner stiffener plate designated as #141-2 at 13m elevation Mr. Docena recorded no rejectable indications at this time.

9:10 this QA observed QC Bernard Docena perform Magnetic Particle Testing (MT) of the PJP root pass to attach corner stiffener plate designated as #142-2 at 13m elevation Mr. Docena recorded no rejectable indications at this time.

13:00 this QA observed QC Bernard Docena perform Magnetic Particle Testing (MT) of the PJP root pass to attach corner stiffener plate designated as #141-1 at 13m elevation Mr. Docena recorded no rejectable indications at this time.

13:10 this QA observed QC Bernard Docena perform Magnetic Particle Testing (MT) of the PJP root pass to attach corner stiffener plate designated as #142-1 at 13m elevation Mr. Docena recorded no rejectable indications at this time.

Magnetic Particle Testing

This QA Inspector performed Magnetic Particle Testing (MT) of approximately 15% of diaphragm to shear plate weld designated as "Weld #116". This weld was previously accepted by QC Magnetic Particle technicians. This QA observed no rejectable indications at the time of testing. This QA Inspector generated a TL-6028 MT report on this date. The completed work observed at this location appeared to be in compliance with the contract specifications.

This QA tested approximately 15% (500mm) of 1840mm total.

Note:

This QA spent sections of this shift reviewing and documenting the status and completion of various punch list items. This QA photo documented the current status of punch list items for further review. In addition, this QA

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collected supporting documentation such as QC Daily and Non Destuctive Testing (NDT) reports to be submitted with punch list findings.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.





Summary of Conversations:

No relevant conversations.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact SMR Nina Choy (510) 385-5910, who represents the Office of Structural Materials for your project.

Inspected By:	Clifford,William	Quality Assurance Inspector
Reviewed By:	Levell,Bill	QA Reviewer